



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

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LLOYD E. FUNK
DAVID A. BARKER

Filed: April 21, 2000

Serial No.: 09/556,852

For: Gasoline-Oxygenate Blend And
Method Of Producing The Same

§
§ Group Art Unit: 1714

§
§ Examiner: M. Medley

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§
§ Attorney Docket No.: 013129/00025

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AS

STATEMENT UNDER 37 C.F.R. § 1.97 (e)(2)

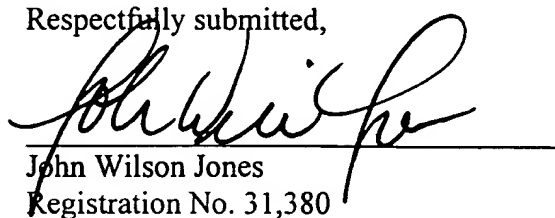
Assistant Commissioner of Patents
BOX Non-Final Amendment
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. § 1.97 (e)(2), Applicant hereby submits the following statement:

No item of information contained in the Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to Applicant's knowledge, no item of information contained in the Supplemental Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Supplemental Information Disclosure Statement.

Respectfully submitted,


John Wilson Jones
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Date: October 12, 2001

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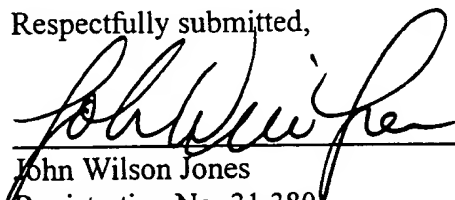
3. Examiner's Interview of June 27, 2001. Applicants acknowledge the interview of June 27, 2001 that was graciously extended by Examiner Medley. The participants at the interview, in addition to Examiner Medley, were inventor Charles A. Lieder and inventor David A. Barker. At this interview, the scope of the active claims of the application were discussed, especially in light of Redacted Gasoline Data from Third Party Source and Gasoline Data From a Third Party. The salient points of the interview were set forth in detail in the Amendment filed on August 24, 2001.

CONCLUSIONS

Applicants do not believe that any additional fees are required for consideration of the Supplemental Information Disclosure Statement or any other issues raised in this Supplemental. To the extent Applicants are incorrect, the Commissioner is hereby authorized to charge any additional fees to Deposit Account No. 12-1322(Our ref.013129-00025).

Applicants respectfully request the Examiner to issue a Notice of Allowance. The Examiner is invited to telephone the undersigned should it be deemed prudent to expedite examination of this application.

Respectfully submitted,



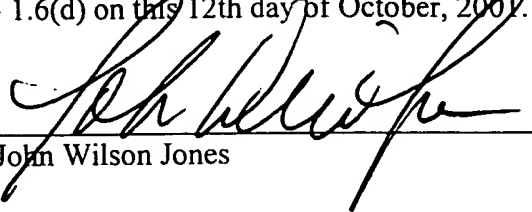
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CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.6(d)

I hereby certify that this correspondence is being transmitted to the Assistant Commissioner for Patents, BOX Non-Final Amendment, Washington, D.C. 20231, via facsimile, 703 305-7718, in accordance with 37 C.F.R. § 1.6(d) on this 12th day of October, 2007.


John Wilson Jones



VERSION WITH MARKINGS TO SHOW CHANGES MADE

- 1 23. A process for preparing a gasoline-oxygenate blend comprising combining a blend of
2 hydrocarbons with an alcohol, ~~blending at least two hydrocarbon streams to produce a gasoline~~
3 wherein the resulting gasoline-oxygenate blend has the following properties:
4 (a) a Dry Vapor Pressure Equivalent less than about 7.1 PSI; and
5 (b) an alcohol content greater than about 5.8 volume percent.

- 1 24. (Once Amended). The process of Claim 23 ~~further comprising introducing ethanol~~
2 ~~during the blending~~ wherein the alcohol is ethanol.

- 1 26. (Once Amended). A process for preparing a gasoline-oxygenate blend comprising
2 ~~blending at least two hydrocarbon streams to produce a gasoline~~ combining a blend of
3 hydrocarbons with an alcohol, wherein the resulting gasoline-oxygenate blend has the
4 following properties:
5 (a) a Dry Vapor Pressure Equivalent less than about 7.0 PSI; and
6 (b) an alcohol content greater than about 5.0 volume percent.

- 1 27. (Once Amended) The process of Claim 26 wherein the ~~resulting gasoline-oxygenate~~
2 ~~blend reduces toxic air pollutants emissions by more than about 30%~~ alcohol is ethanol.

MARKED-UP VERSION SHOWING CHANGES

event that a plurality of gasoline-oxygenate Phase I blend recipes were made for each neat blend A-X, the corresponding gasoline-oxygenate Phase I blend recipes in Table 8 have been designated by the blend letter designation, for example A, followed by a numerical designation, for example 1, such that the gasoline-oxygenate property shown in Tables 9-10 correspond to the blend letter, and number designation, if applicable. Accordingly, Table 8, entitled "Phase I Gasoline-Oxygenate Blend Recipes," shows each gasoline-oxygenate blend recipe in terms of volume percent of the total blend after the introduction of oxygenates.

TABLE 8: PHASE I GASOLINE-OXYGENATE BLEND RECIPES

BLEND	EtOH	C4	FFB	RAFF	HOR	TOL	LCC	ALKY	LSCC	HCC
	(in terms of volume percent of the total blend) (%)									
A1	9.50	0.00	1.27	0.00	20.72	17.92	8.05	42.54	0.00	0.00
A2	5.42	0.0	1.3	0.0	21.7	18.7	8.4	44.5	0.0	0.0
[B2] B1	9.50	0.00	0.00	15.39	16.20	9.41	0.00	23.89	10.59	15.02
B2	5.42	0.0	0.0	16.1	16.9	9.8	0.0	25.0	11.1	15.7
C1	9.50	1.45	0.00	0.00	14.93	27.60	13.39	33.12	0.00	0.00
C2	5.42	1.5	0.0	0.0	15.6	28.8	14.0	34.6	0.0	0.0
D1	9.50	0	0	15.7	24.8	0	12.8	15.7	18.6	2.9
D2	5.42	0.0	0.0	16.5	25.9	0.0	13.3	16.5	19.4	3.0
E1	9.50	0.00	0.00	22.63	25.25	0.00	0.00	15.84	16.83	9.86
E2	5.42	0.0	0.0	23.6	26.4	0.0	0.0	16.6	17.6	10.3
F1	9.50	0.00	0.00	9.14	9.23	32.85	16.47	22.81	0.00	0.00
F2	5.42	0.0	0.0	9.6	9.6	34.3	17.2	23.8	0.0	0.0
G1	9.50	0.09	3.35	0.00	34.39	7.15	9.50	35.93	0.00	0.00
G2	5.42	0.1	3.5	0.0	35.9	7.5	9.9	37.5	0.0	0.0
H	9.50	0.00	0.00	12.49	15.48	0.00	0.09	25.61	18.55	18.19
I1	9.50	0.00	1.81	19.10	8.78	19.28	11.31	9.68	20.54	0.00
I2	5.42	0.0	1.9	20.0	9.2	20.1	11.8	10.1	21.5	0.0
J1	9.50	0.00	1.45	0.00	31.77	9.59	12.94	32.67	0.00	2.08
J2	5.42	0.0	1.5	0.0	33.2	10.0	13.5	34.1	0.0	2.2
K1	9.50	0.00	0.00	20.27	17.47	13.39	7.24	20.72	10.05	1.36
K2	5.42	0.0	0.0	21.2	18.3	14.0	7.6	21.7	10.5	1.4
L1	9.40	0.00	0.00	23.47	16.13	7.34	13.32	10.87	17.03	2.54
L2	5.42	0.0	0.0	24.5	16.8	7.7	13.9	11.3	17.8	2.6
M	9.50	0.00	0.00	11.67	19.10	0.18	9.96	20.27	17.20	12.13

MARKED-UP VERSION SHOWING CHANGES

N	9.72	0.00	0.72	18.33	4.15	23.20	17.42	0.00	17.33	9.21
O1	9.79	0.00	2.71	0.00	20.57	15.97	9.11	36.26	0.00	5.68
O2	5.42	0.0	2.8	0.0	21.6	16.7	9.6	38.0	0.0	6.0
P	9.72	0.00	0.00	15.98	0.00	19.23	6.68	19.41	15.80	13.27
[Q1] Q	9.64	0.00	0.00	17.80	4.70	14.64	3.34	12.83	18.61	18.52
Q2	5.42	0.0	0.0	18.6	4.9	15.3	3.5	13.4	19.5	19.4
R1	9.59	0.00	0.00	20.52	17.36	5.33	7.23	5.79	23.87	10.22
R2	5.42	0.0	0.0	21.5	18.2	5.6	7.6	6.1	25.0	10.7
S1	9.69	0.00	0.99	11.56	0.00	26.55	14.54	36.76	0.00	0.00
S2	5.42	0.0	1.0	12.1	0.0	27.8	15.2	38.5	0.0	0.0
T	9.66	0	0	13.5	15.3	4.2	15.4	12.3	26.6	3.3
U	9.66	0	0	4.2	12.8	15.7	7.5	32.2	0	17.9
V	9.81	0	0	19.1	13.3	0	0	17.2	26.8	13.7
W	9.67	0	0	0	32	11.8	26.7	19.7	0	0
X	9.65	0	0	9.7	0	0.4	0.73	34.5	24	21.1

Each of the gasoline-oxygenate blends was tested offline using the appropriate laboratory ASTM procedure found in the *Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel*, ASTM D 2699, the *Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel*, ASTM D 2700, the *Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method)*, ASTM D 5191, and the *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure*, ASTM D 86.

As before, each blend designation shown below corresponds to the gasoline-oxygenate blend recipe shown in Table 8. For example, gasoline-oxygenate blend A1 in Table 9 corresponds to the blend recipe shown for gasoline-oxygenate blend designation A1 in Table 8. Similarly, gasoline-oxygenate blend A2 below corresponds to the gasoline-oxygenate blend designation A2 in Table 8. With these designations in mind, the following gasoline-oxygenate blend properties were determined.